

IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) A method of operating an imaging device with a two-dimensional field of image sensors as well as an evaluation unit which is capable of reading out and processing the pixel signals, representing output signals of image sensors combined by a binning operation, at a maximum rate of no more than G_{max} , comprising:

presetting, on said imaging device, at least one parameter in order to define a sub-region of the field; and

deriving, by said imaging device, any remaining parameters for defining the sub-region as well as a binning factor b and an imaging rate f, said deriving being performed, in view of the at least one preset parameter, in such a manner that the maximum rate G_{max} of the evaluation unit is not exceeded during the reading out of all pixel signals from the sub-region, the location of said sub-region within said field being unique and corresponding to said at least one parameter and said any remaining parameters.

2. (previously presented) The method as claimed in claim 1, wherein the image sensors are arranged in a periodic pattern in a rectangular field, the sub-region having a rectangular shape with its sides extending parallel to the edges of the field.

3. (previously presented) The method as claimed in claim 1, wherein the image sensors are X-ray sensors.

4. (previously presented) The method of claim 1, said device having a service mode, said sub-region being preset in said service mode.

5. (previously presented) The method as claimed in claim 1, wherein said deriving comprises following, by said imaging device, specified rules in conformity with which variables are changed relative to their current values in order to ensure that the maximum rate G_{max} is adhered to.

6. (previously presented) A method as claimed in claim 1, the evaluation of the pixel signals being performed by means of calibration images related to the sub-region.

7. (previously presented) The method as claimed in claim 6, wherein:

sub-regions are selected which cover the entire field of the image sensors;

for each of the sub-regions related calibration images are generated with predetermined imaging parameters;

from the calibration images of the sub-regions there are generated overall calibration images for the imaging parameters which are related to the entire field of image sensors; and

calibration images for an arbitrary new sub-region are acquired from the overall calibration images.

8. (previously presented) The method as claimed in claim 6, wherein dark images of the sub-region are generated and used as calibration images.

9. (previously presented) An imaging device which includes a two-dimensional field of image sensors as well as an evaluation unit which is capable of reading out and processing the pixel signals, representing output signals of image sensors combined by a binning operation, at a maximum rate of no more than G_{max} , the imaging device being configured to enable presetting of at least one parameter in order to define a sub-region of the field, and further configured for deriving any remaining parameters for defining the sub-region as well as a binning factor b and an imaging rate f, said deriving being performed, in view of the at least one preset parameter, in such a manner that the maximum rate G_{max} of the evaluation unit is not exceeded during the reading out of all pixel signals from the sub-region.

10. (previously presented) An imaging device as claimed in claim 15,, further comprising:

a beam path; and
an X-ray apparatus with an adjustable diaphragm arrangement in the beam path, said arrangement including an adjustable diaphragm device, said apparatus being configured such that at least one adjustment parameter of said diaphragm device is among said at least one preset parameter.

11. (previously presented) The method as claimed in claim 1, wherein said any remaining parameters amount to one or more parameters.

12. (previously presented) The method as claimed in claim 4, wherein said deriving of the factor b and the rate f occurs in a mode distinct from said service mode.

13. – 14. (canceled)

15. (previously presented) An imaging device comprising:

a two-dimensional field of image sensors, said field being divided into pixels for outputting pixel signals representing output signals of said image sensors combined by a binning operation at a binning factor of unity or greater; and

an evaluation unit configured for, at a maximum rate of no more than G_{max} , reading out and processing said pixel signals,

said imaging device being configured to enable presetting of at least one parameter in order to define a sub-region of said field, said sub-region comprising less than all of said field, but a plurality of said pixels,

said imaging device being further configured for, based on said at least one preset parameter and on said maximum rate G_{max} , deriving a) any parameters for defining the sub-region that were not preset in said presetting, b) said binning factor, and c) an imaging rate.

16. (previously presented) A method for making an imaging device comprising:
 - providing a two-dimensional field of image sensors;
 - configuring said device so that said field is dividable into pixels for outputting pixel signals representing output signals of said image sensors combined by a binning operation at a binning factor of unity or greater;
 - configuring an evaluation unit capable of reading out and processing said pixel signals, but at no more than a maximum rate of G_{max} ,
 - further configuring said device for presetting at least one parameter in order to define a sub-region of said field, said sub-region comprising less than all of said field, but a plurality of said pixels; and
 - further configuring said device for, based on said at least one preset parameter and on said maximum rate G_{max} , deriving, by said device, a) any parameters for defining the sub-region that were not preset in said presetting, b) said binning factor, and c) an imaging rate.
17. (previously presented) The method as claimed in claim 16, wherein said parameters for defining the sub-region that were not preset in said presetting amount to one or more parameters.
18. (canceled)

19. (currently amended) An article of manufacture, comprising a ~~machine-accessible~~computer-readable medium having instructions encoded thereon for enabling a processor to perform the method of claim 1.

20. (previously presented) A computer software product for use with an evaluation unit capable of reading out and processing pixel signals of a two-dimensional field of image sensors at a maximum rate of no more than G_{max} , said field being dividable into pixels for outputting said pixel signals representing output signals of said image sensors combined by a binning operation at a binning factor of unity or greater, said product comprising a computer readable medium embodying a computer program that includes instructions executable by a processor to perform a plurality of acts, said plurality comprising the acts of:

presetting at least one parameter in order to define a sub-region of the field, said sub-region comprising less than all of said field, but a plurality of said pixels; and

based on said at least one preset parameter and on said maximum rate G_{max} , deriving, by said imaging device, a) any parameters for defining the sub-region that were not preset in said presetting, b) said binning factor, c) an imaging rate.

21. (new) The method of claim 1, wherein said deriving being performed in said such a manner is performed in view of G_{max} .

22. (new) The imaging device of claim 9, the location of said sub-region within said field being unique and corresponding to said at least one parameter and said any remaining parameters.

23. (new) The imaging device of claim 9, for which said deriving being performed in said such a manner is performed in view of G_{max} .